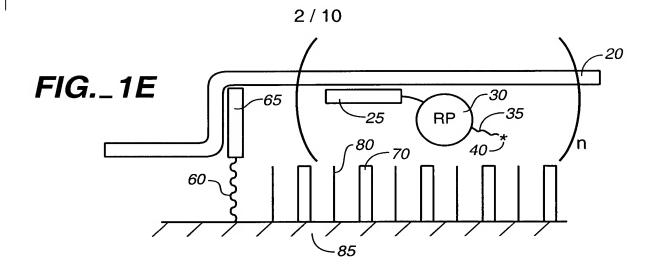
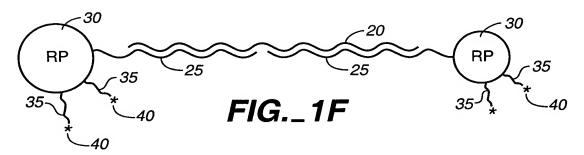
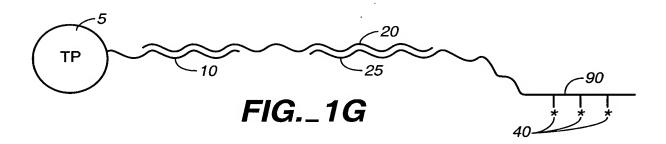
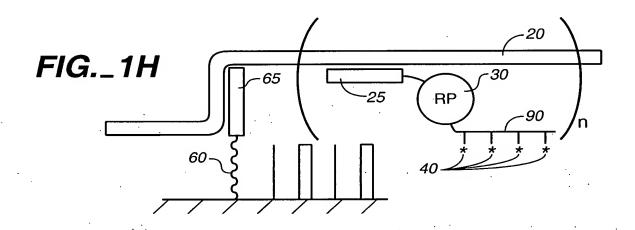


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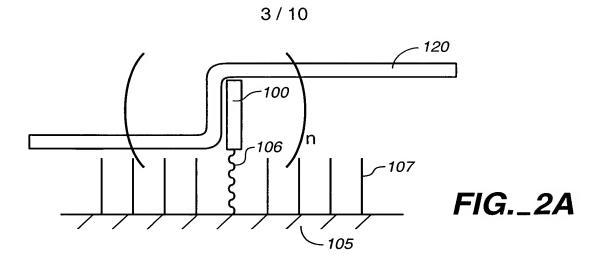


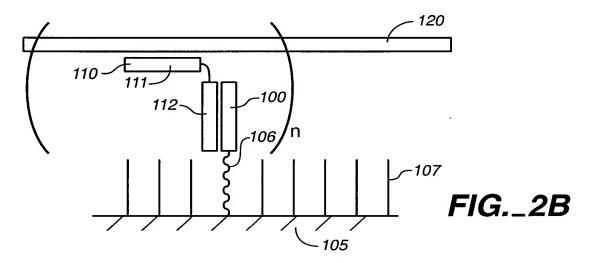


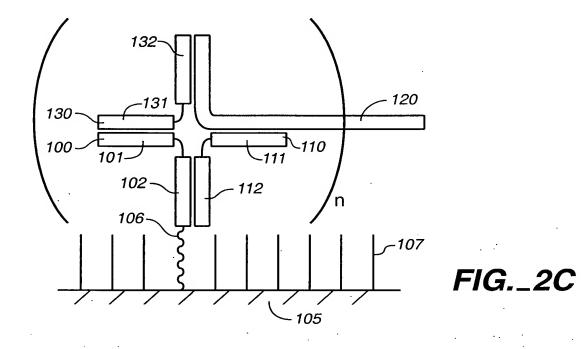




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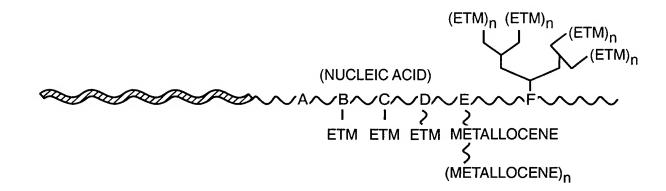




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= FIRST HYBRIDIZABLE PORTION OF LABEL PROBE

= RECRUITMENT LINKER



A = NUCLEOSIDE REPLACEMENT

B = ATTACHMENT TO A BASE

C = ATTACHEMENT TO A RIBOSE

D = ATTACHMENT TO A PHOSPHATE

E = METALLOCENE POLYMER, ATTACHED TO A RIBOSE, PHOSPHATE, OR BASE

F = DENDRIMER STRUCTURE, ATTACHED VIA A RIBOSE, PHOSPHATE OR BASE

FIG._3A

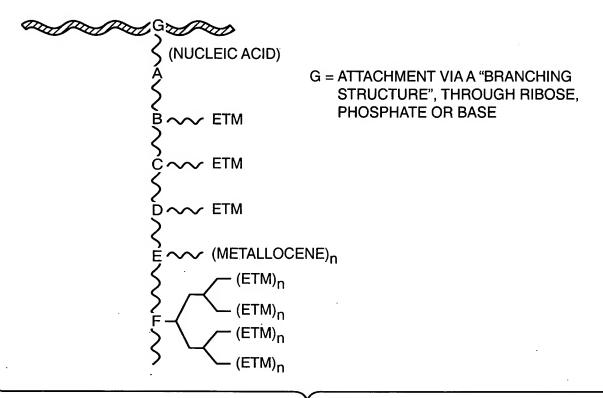


FIG. 3B

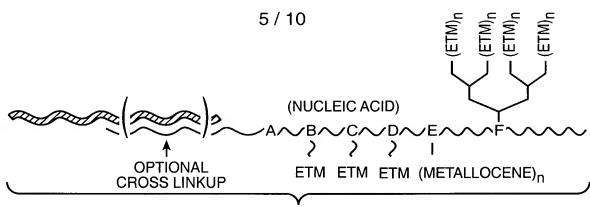


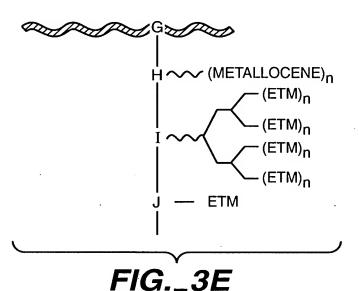
FIG._3C

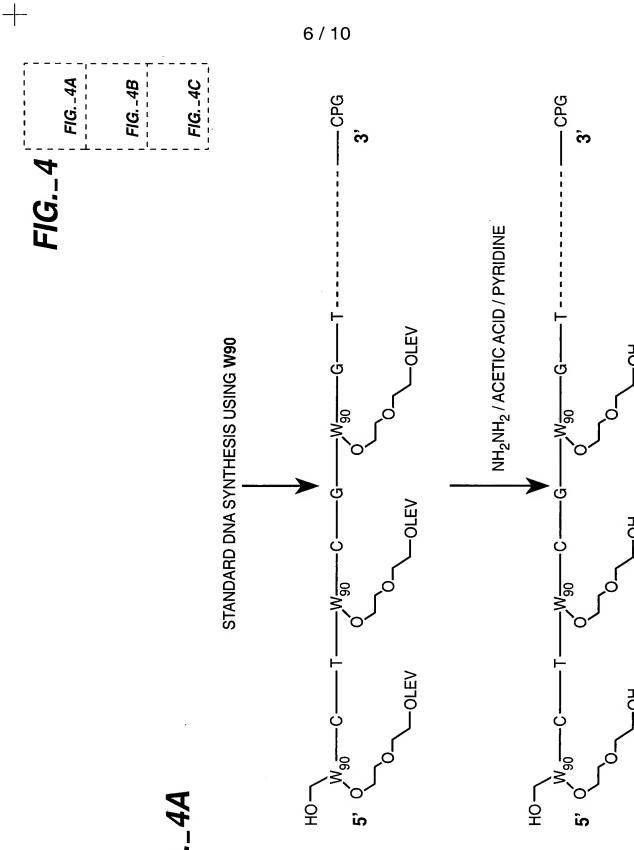
H = ATTACHMENT OF METALLOCENE POLYMERS

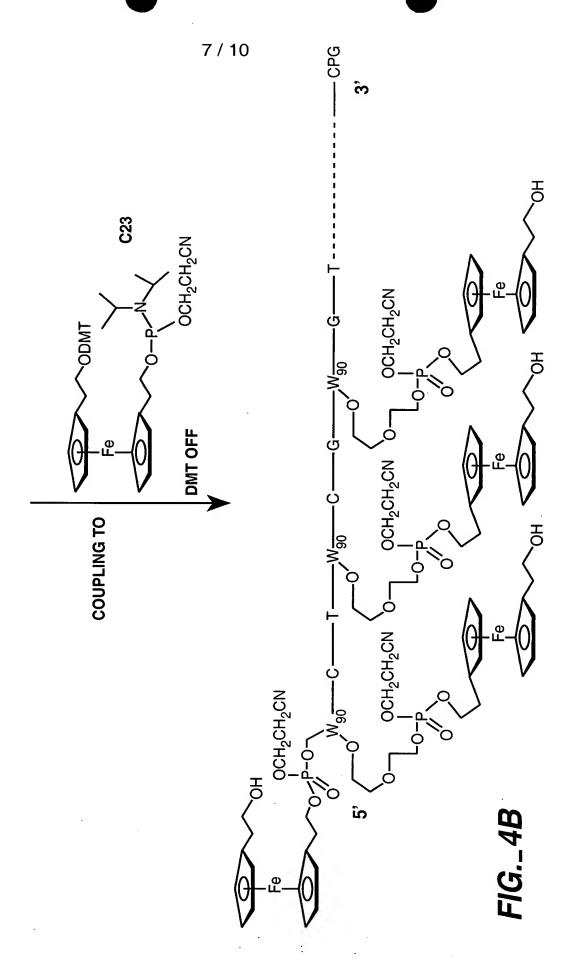
I = ATTACHMENT VIA DENDRIMER STRUCTURE

J = ATTACHMENT USING STANDARD LINKERS

FIG._3D



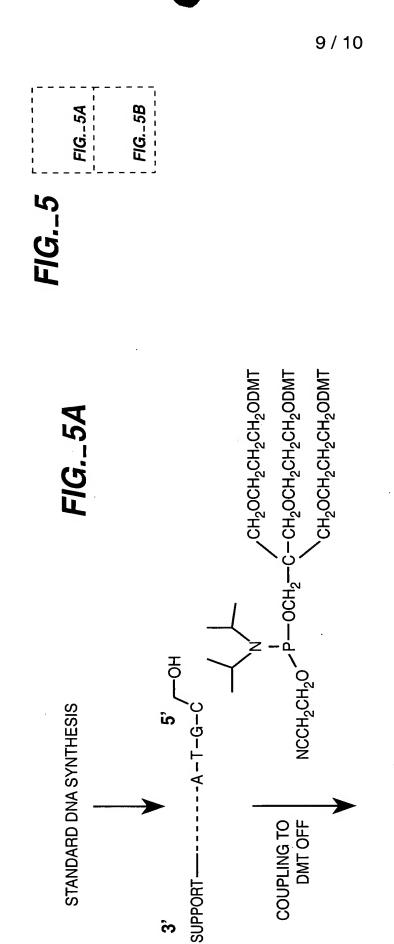




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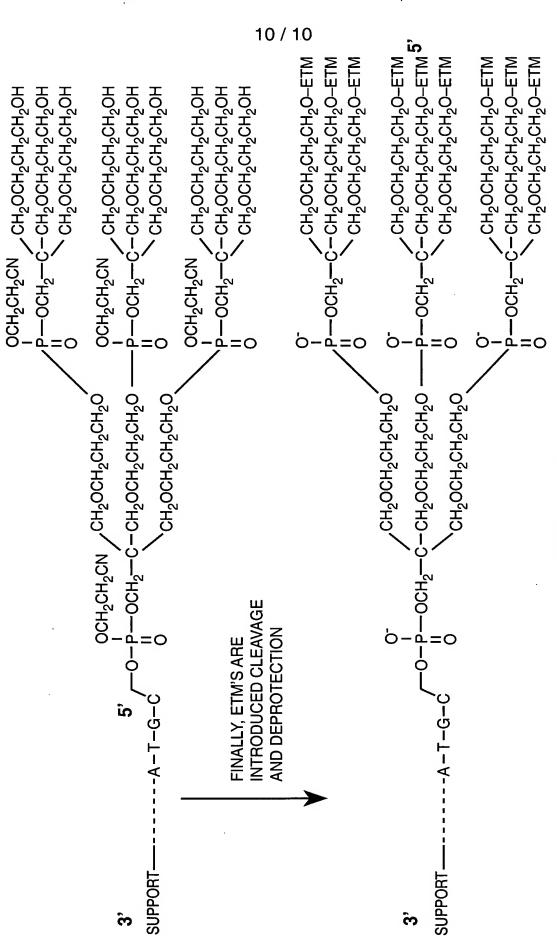
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THIS PROCESS CAN BE REPEATED UNTIL THE DESIRED # OF FERROCENE IS OBTAINED, AND THEN HYDROXY GROUPS ON FERROCENE ARE CAPPED USING THE LEFT PHOSPHORAMIDITE IN ORDER TO INCREASE THE SOLUBILITY OF FERROCENE IN WATER.



OCH₂CH₂CN CH₂OCH₂CH₂CH₂OH -O-P-OCH₂-C-CH₂OCH₂CH₂CH₂OH сн2осн2сн2он THIS COUPLING PROCESS CAN BE -A-T-G-C SUPPORT က်

REPEATED UNTIL DESIRED # OF THE BRANCHING POINTS



IG._5B